

FIG. 1

200

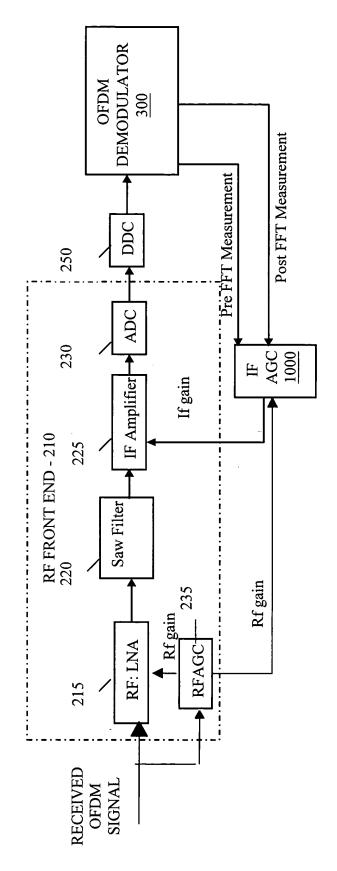
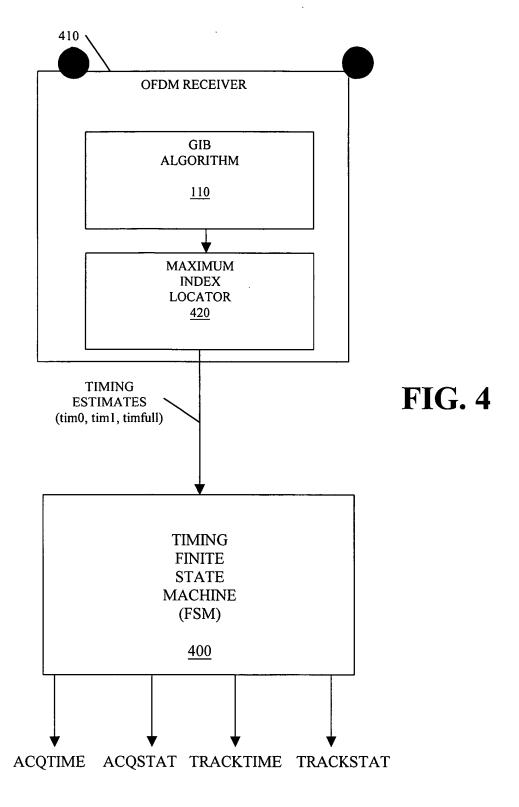


FIG. 2

PRE-FFT MEASUREMENT

POST-FFT MEASUREMENT



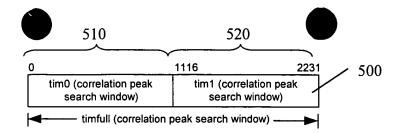


FIG. 5A

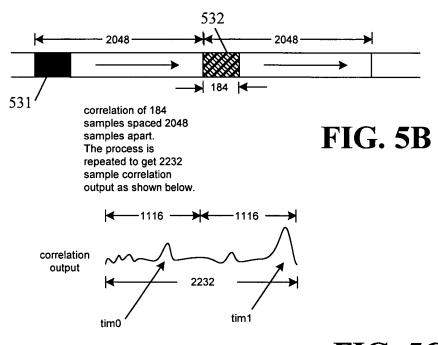
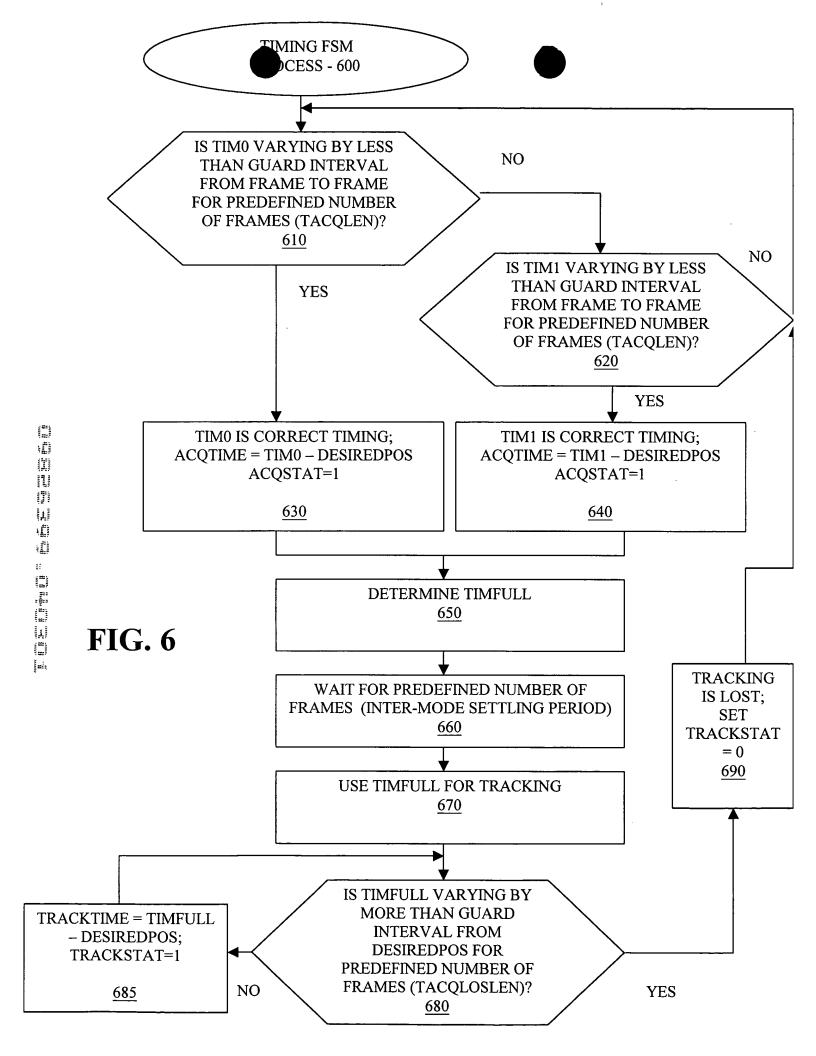
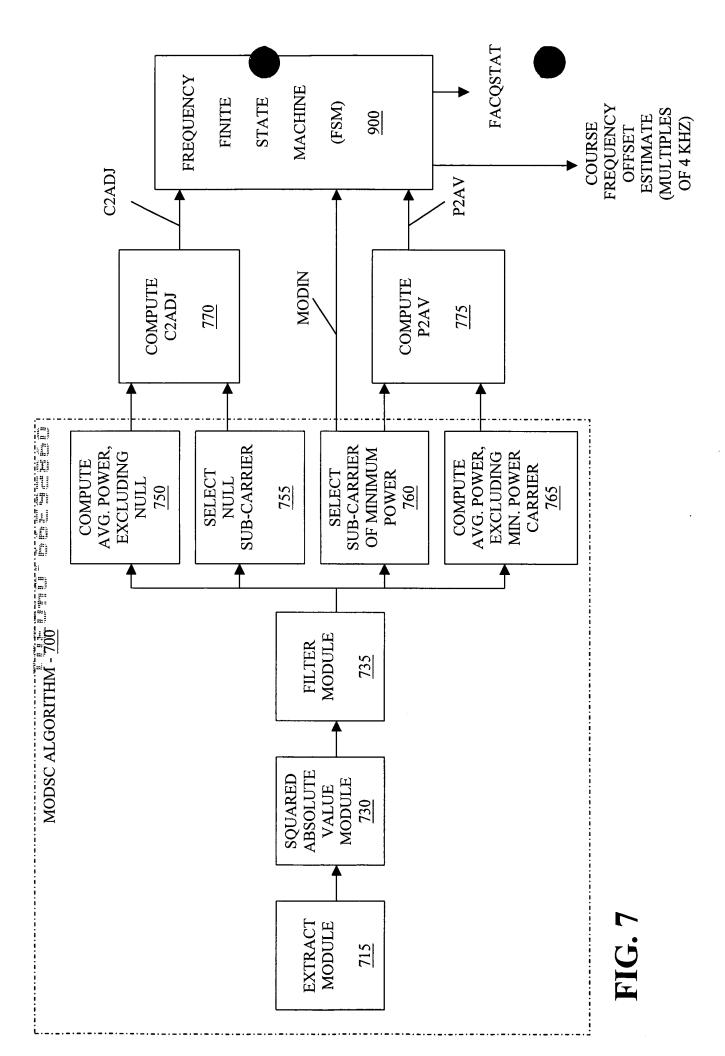


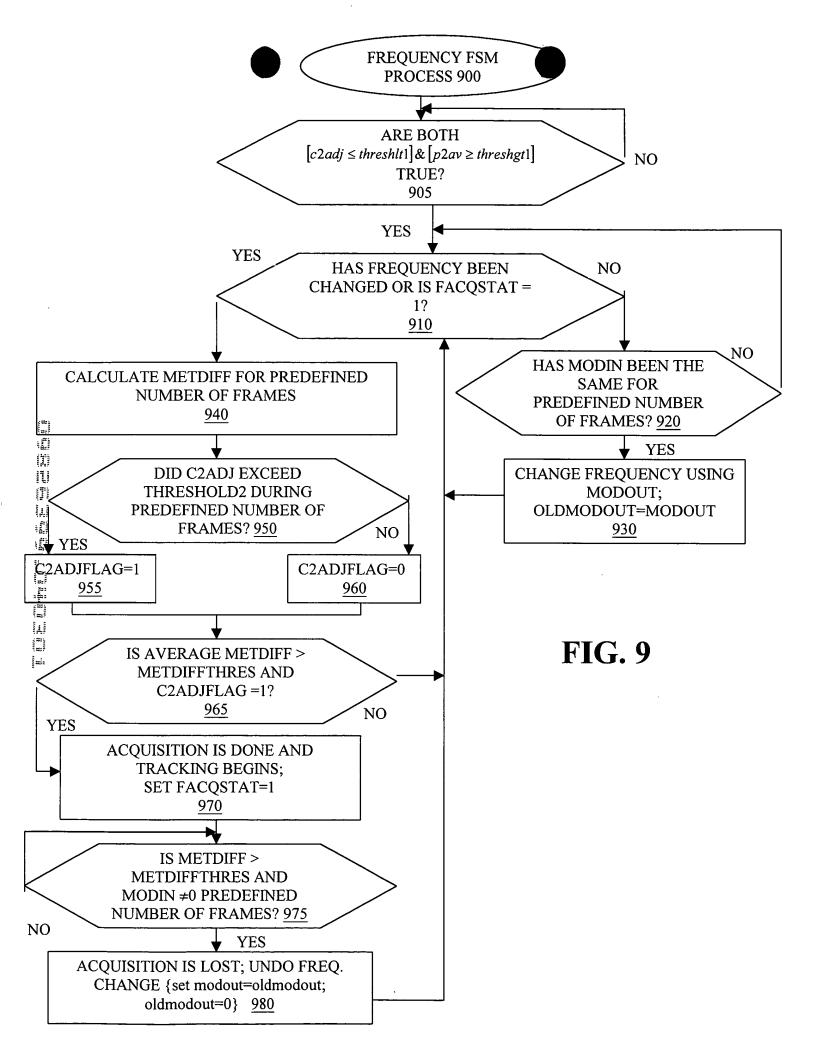
FIG. 5C

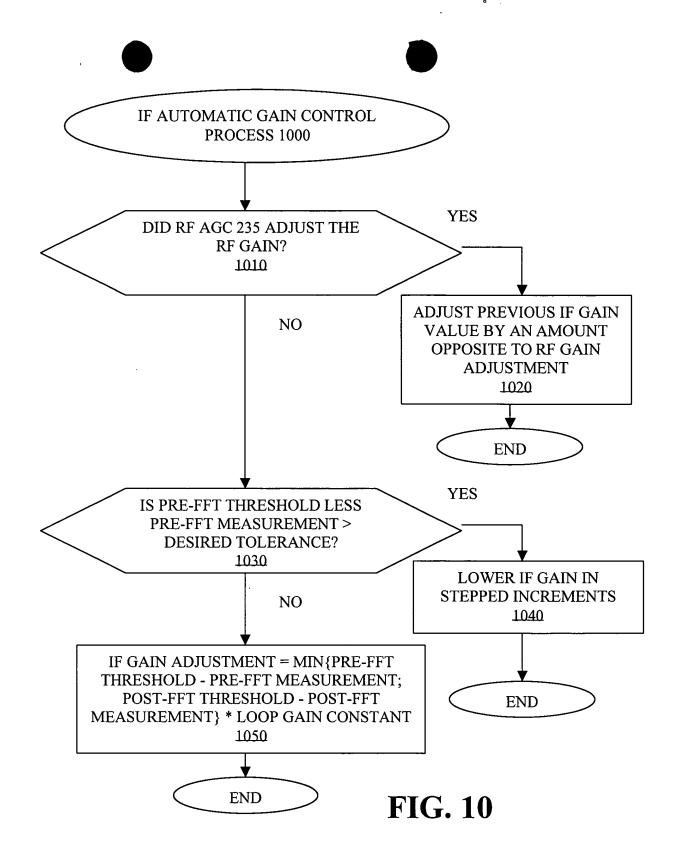




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FIG. 8





```
INPUT PORT(1) register float *Prepower;
INPUT_PORT(2) register float *Postpower;
INPUT PORT(3) register float *RFgain;
OUTPUT PORT(1) register float *Output; /*IF AGC Gain in dB*/
BLOCKFACTOR long BlockFactor;
PARAMETER(1) float OutputIntervalWidth; /* 71 dB*/
PARAMETER(2) float SetPointdBPre;
                                        /*42.2*/
PARAMETER(3) float SetPointdBPost;
                                        /*32.2*/
PARAMETER(4) float Kagc;
                                  /*0.25*/
PARAMETER(5) float PreDropdB;
                                        /* 3.0*/
PARAMETER(6) long WaitTime;
                                        /*8 OFDM Frames!!*/
STATE float oldoutput;
STATE float oldrfgain;
STATE long counter;
#include <math.h>
void init ofdmagccontrol2()
/* initialize Sum */
oldoutput = 0.0;
counter = WaitTime;
}
void ofdmagccontrol2()
register float dbinpre, dbinpost, err, rfgain, output;
float HalfInterval = (OutputIntervalWidth / 2.0);
```

FIG. 11A

```
LOOP(BlockFactor)
      printf("-----IFbeg-----\n");
      dbinpre = *Prepower++; dbinpost = *Postpower++;
      rfgain = *RFgain++;
      printf("prepower = %f, post = %f, rfgain = %f\n", dbinpre, dbinpost, rfgain);
      if((rfgain-oldrfgain)!=0.0)
              output = oldoutput -(rfgain-oldrfgain);
              printf("ifgain = -rfdiff = %f, oldrfgain = %f\n", output, oldrfgain);
      else if ((SetPointdBPre-PreDropdB-dbinpre <=0.0)&& (counter >= WaitTime))
              output = oldoutput -(PreDropdB+2.0);
              printf("ifgain = due to Pre = %f\n", -PreDropdB);
              counter=0;
              }
      else
              counter++;
              if(SetPointdBPre-dbinpre < SetPointdBPost-dbinpost)
                     err = SetPointdBPre - dbinpre;
              else
                     err = SetPointdBPost-dbinpost;
              err = Kagc*err;
              output = oldoutput+err;
              printf("output = %f\n", output);
              }
      if(output>=HalfInterval)
              output = HalfInterval;
      else if (output<=-HalfInterval)
              output = -HalfInterval;
      else
              output = output;
      *Output++ = output;
      oldrfgain = rfgain;
      oldoutput = output;
      printf("-----IFend-----\n");
ENDLOOP
```

FIG. 11B